

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,109,473 B2
APPLICATION NO. : 10/659153
DATED : September 19, 2006
INVENTOR(S) : David G. Grier and Jennifer E. Curtis

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 9, line 32, delete "+he" and insert --the--;

In column 11, line 31, insert --efficiency--after the word "diffraction" and before the words "of roughly 50%,"

In column 15, line 25, delete "+" after the equation " $\varphi_a(\vec{r}) = (a_0 / 2^{1/2})(6\rho^4 - 5\rho^2 + 1)$ " spherical aberration;"

In column 15, line 27, insert --+-- before the equation " $a_1(3\rho^3 - 2\rho)\cos(\theta - \theta_1)$ " coma;"

In column 15, line 29, insert --+-- before the equation " $a_2\rho^2[2\cos^2(\theta - \theta_2) - 1]$ " astigmatism;"

In column 15, line 30, insert --+-- before the equation " $(a_3 / 2^{1/2})(2\rho^2 - 1)$ " field curvature;"

In column 15, line 32, insert --+-- before the equation " $a_4\rho\cos(\theta - \theta_4)$ " distortion;"

In column 18, line 4, insert --90-- after "SLM" and before "onto the beam's wavefront splits the single input;"

In column 20, line 5, insert --R-- after the word "IF" and before the words "is larger than;"

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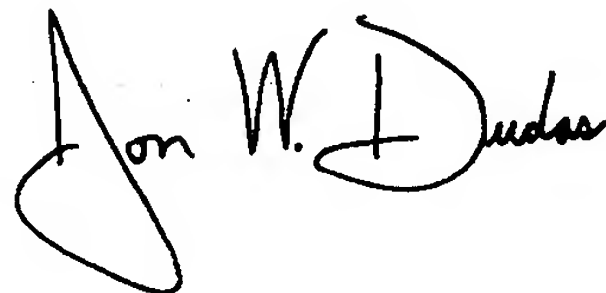
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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In column 27, line 31, claim 4, insert -- $\varphi(\vec{r})$ and \vec{r} -- after the words "modulation is" and before the words "the position relative to;"

Signed and Sealed this

Thirty-first Day of July, 2007

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the 'J' and a cursive 'Dudas'.

JON W. DUDAS
Director of the United States Patent and Trademark Office